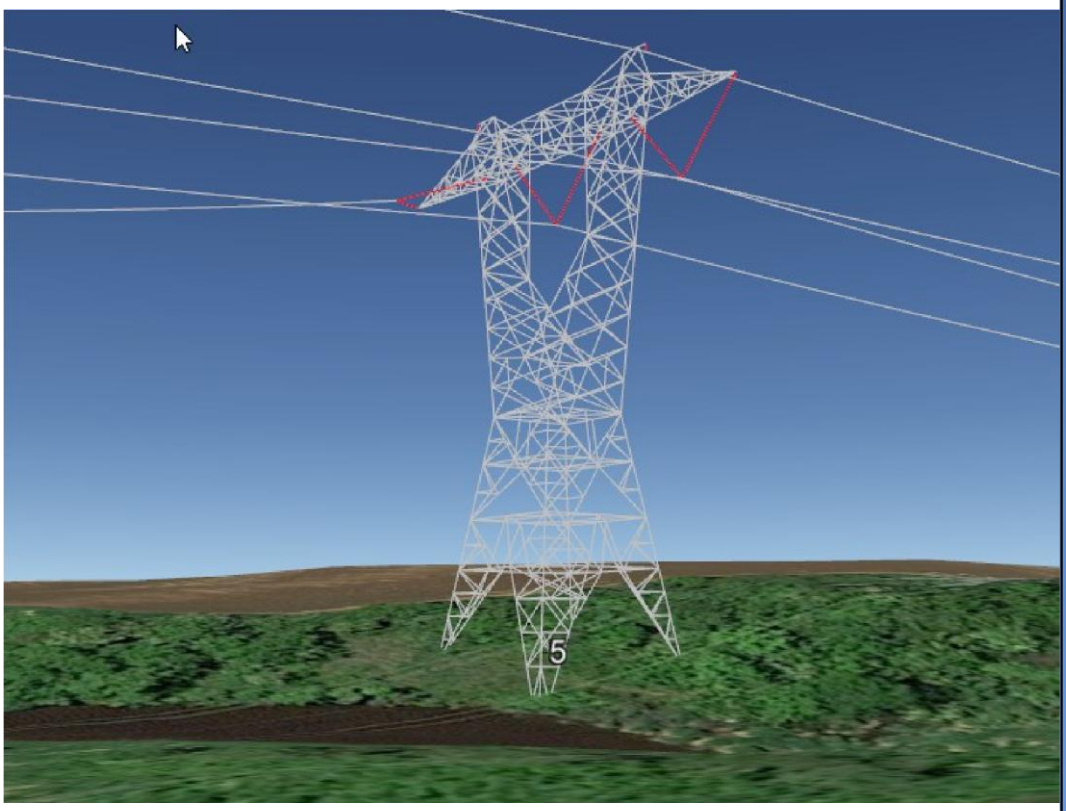
Advanced PLS-CADD Seminar

Advanced Topics for Design of Overhead Transmission and Distribution Lines using PLS-CADD



October 26 – 30, 2026

1:00 PM to 5:30 PM Monday

8:30 AM to 4:30 PM Tues - Thur

8:00 AM to 12:00 PM Friday

Location:

Power Line Systems

5400 King James Way

Suite 300

Madison, WI 53719

POWER LINE® SYSTEMS

Part of Bentley Systems

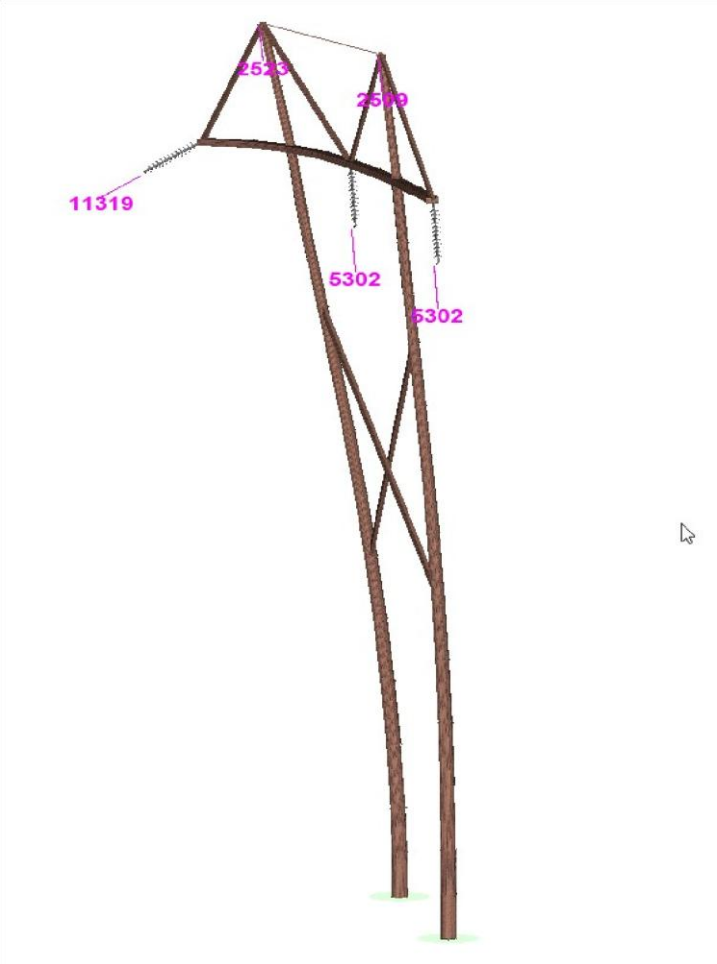
Power Line Systems
5400 King James Way, Suite 300
Madison, Wisconsin 53719, USA
Phone: (608) 238 - 2171
https://www.powerlinesystems.com
training@powerlinesystems.com

Improve Your Knowledge and Proficiency with the Industry Standard in Overhead Line Design Software

PLS-CADD is the industry standard in overhead line design and drafting software. This course will explore more advanced topics in PLS-CADD and PLS-POLE. The attendees will learn how to utilize and apply these advanced topics to their transmission or distribution projects and become more proficient in the use of the software.

Topics Covered

- Finite Element
  - Ruling span & finite element analysis
  - Clipped vs unclipped insulators
  - Finite element analysis levels 2, 3, & 4
  - Structure loads under RS & FE (Intact, broken wire, construction & maintenance, wind direction, etc.)
  - Equalizing tensions, Slip & Clip
  - Taps & floating dead ends
- PLS-CADD
  - Graphical sagging of wires
  - Electrical circuits
  - Electrical calculations (Line constants, EMF, lightning protection, audible noise)
  - Jumpers
  - New features
- PLS-POLE
  - Framesets
  - Troubleshoot convergence issues
  - Wood pole buckling
  - Automatic pole embedment
- And more



Who Should Attend?

This course is open to all engineers and technicians whose companies currently use PLS-CADD. The intended audience is someone who currently designs overhead transmission or distribution lines in PLS-CADD and wants to learn and apply more advanced features to improve their work.

Prerequisite

Basic PLS-CADD training course or equivalent experience.

Cost

The class costs $2400 per person.

More Information

The course registration form is included at the end this brochure. Seats are limited to the first 30 registrants. We must receive payment and your registration form in order to reserve your seat.

Please see our website for other classes:

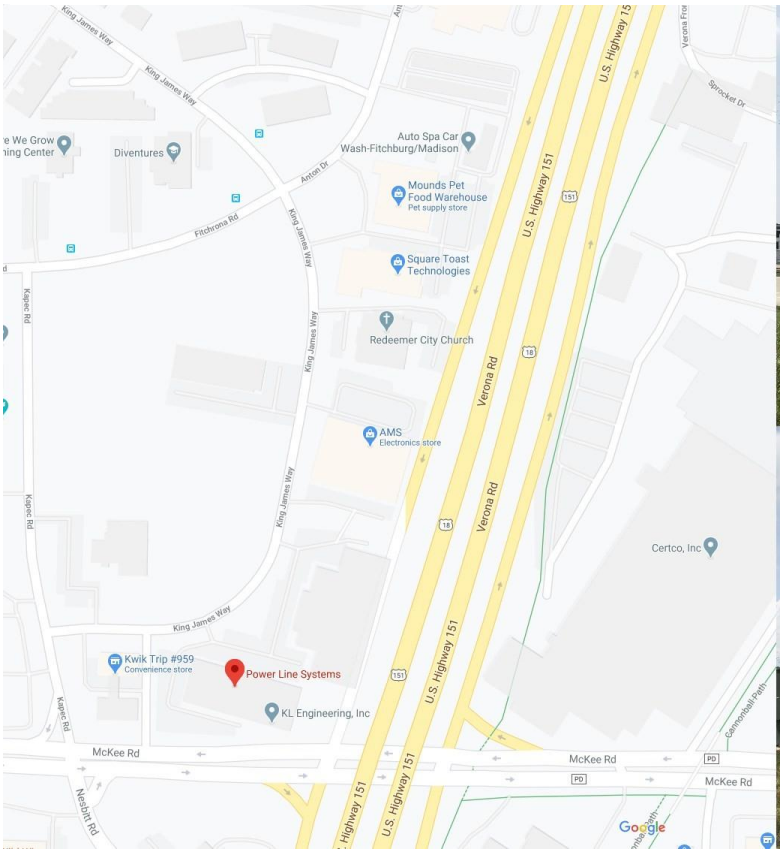
https://www.powerlinesystems.com/onlinetraining

https://www.powerlinesystems.com/classes

The course will be led by Tim Cashman, P.E., Power Line Systems along with the help of other technical support staff. He has more than 37 years of experience in overhead line design ranging from 69kV through 500kV and using the PLS software suite. Tim is a registered Professional Engineer, is an active member of ASCE and is a member of the ASCE 10 standard committee. In addition to technical support, he also performs software testing, participates in the development of new software features, and conducts TOWER training courses. He has an extreme in-depth knowledge of the software's functionality and implementation.

Details

The class will be held from 1:00 PM to 5:30 PM Monday, 8:30 AM to 4:30 PM Tuesday through Thursday and from 8:00 AM to 12:00 PM on Friday (training room opens 15 minutes before class start each day). The course will be conducted at Power Line Systems headquarters in Madison, Wisconsin (see map below). Lunch will be provided Tuesday through Thursday. Attendees are responsible for all other costs incurred including lodging. Please see https://www.powline.com/visiting.html for a detailed map of Power Line Systems location and listings of area hotels.



Computers and Software Provided

This is a 'hands-on' class where attendees will learn by actually using the software. Computers, PLS software, and software licenses will be provided by Power Line Systems for each attendee for the duration of the class.

Any audio or video recording of the class is strictly prohibited.

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Advanced PLS-CADD Seminar Registration Form

October 26 - 30, 2026 in Madison, Wisconsin, USA

Registration

Registration for the course can be made by sending the Attendee Information or a completed copy of this from to training@powerlinesystems.com.

Attendee Information

Name (First/Last) _____ Phone _____

Company _____

Address _____ E-Mail _____

_____

City _____ State ____ Postal Code _____

Country _____

Payment Information

Full payment is required prior to the class and must be received in order to reserve a seat. Seats are reserved on a first-paid first-reserved basis and are limited to 30 people.

Payments are made exclusively online using the Bentley Virtuosity system at https://en.virtuosity.com/power-line-systems. Once on the webpage, select the appropriate PLS-CADD class from the pulldown menu, select the quantity and add to your cart. Then check out and pay from your cart.

Payments cannot be made via a purchase order. Payment is only made via the Virtuosity system.

Cancellation Policy

Confirmed registrants who do not participate or who cancel after October 10, 2026, will forfeit their entire registration fee. Power Line Systems reserves the right to cancel the training session and will refund the entire class registration fee in the unlikely event this happens.